

State Water Resources Control Board

Division of Drinking Water

September 18, 2015
System No.: 1610700

Mr. Alex Ramos, CEM Utility & Env. Manager
Lemoore Naval Air Station
750 Enterprise Avenue
Lemoore, CA 93246

RE: **Citation No. 03_12_15C_018**
Violation of Title 22, California Code of Regulations, Section 64426.1,
For July 2015

Dear Mr. Ramos:

Enclosed is a Citation issued to the Lemoore Naval Air Station (System) public water system.

The System will be billed at the Division's hourly rate (currently estimated at \$128.00) for the time spent on issuing this Citation. The California Health and Safety Code Section 116577 provides that a public water system must reimburse the Division for actual costs incurred by the Division for specified enforcement actions, including but not limited to, preparing, issuing and monitoring compliance with a citation. This bill will contain fees for any enforcement time spent on the System for the current fiscal year.

If you have any questions regarding this letter and the enclosed citation, please contact Eli McFarland or me at (559) 447-3300.

Sincerely,



Tricia A. Wathen, P.E.
Senior Sanitary Engineer, Visalia District
SOUTHERN CALIFORNIA BRANCH
DRINKING WATER FIELD OPERATIONS

TAW/LR
Enclosures
cc: Kings County Environmental Health Department

STATE OF CALIFORNIA

STATE WATER RESOURCES CONTROL BOARD
DIVISION OF DRINKING WATER

IN RE: **LEMOORE NAVAL AIR STATION**

Water System No.: 161700

TO: Mr. Alex Ramos, CEM Utility & Env. Manager
750 Enterprise Avenue
Lemoore, CA 93246

Issued: September 18, 2015

**CITATION FOR NONCOMPLIANCE OF
TOTAL COLIFORM MAXIMUM CONTAMINANT LEVEL VIOLATION
TITLE 22, CALIFORNIA CODE OF REGULATIONS, SECTION 64426.1**

JULY 2015

Section 116650 of the California Health and Safety Code (hereinafter "CHSC"), authorizes the State Water Resources Control Board (hereinafter "State Board") to issue a citation to a public water system when the State Board determines that the public water system has violated or is violating the California Safe Drinking Water Act (hereinafter "California SDWA"), (CHSC, Division 104, Part 12, Chapter 4, commencing with Section 116270), or any regulation, standard, permit, or order issued or adopted thereunder.

1 The State Board, acting by and through its Division of Drinking Water (hereinafter "Division")
2 and the Deputy Director for the Division, hereby issues this citation pursuant to Section
3 116650 of the CHSC to the Lemoore Naval Air Station (hereinafter "System") for violation of
4 CHSC, Section 116555(a)(1) and Title 22 California Code of Regulations (hereinafter
5 "CCR"), Section 64426.1.

6
7 A copy of the applicable statutes and regulations are included in Appendix 1, which is
8 attached hereto and incorporated by reference.

9 10 **STATEMENT OF FACTS**

11 The System is classified as a community water system serving a residential population of
12 approximately 11,500 persons through 1,799 service connections.

13
14 The System is required to collect a minimum of three (3) distribution system bacteriological
15 samples per week. The Division received laboratory results for 17 bacteriological samples
16 collected during July 2015 from the System. Four (4) of the 17 samples analyzed detected
17 the presence of total coliform bacteria. None of the positive samples showed the presence
18 of fecal coliform or *E. coli* bacteria. All water samples for coliform bacteria are summarized
19 in Attachment A.

20 21 **DETERMINATION**

22 Title 22, CCR, Section 64426.1, Total Coliform Maximum Contaminant Level (MCL) states
23 that a public water system is in violation of the total coliform MCL if it collects fewer than 40
24 bacteriological samples per month and more than one sample collected during any month is
25 total coliform-positive.

1 The System collected 17 bacteriological samples during July 2015. The results of the
2 analysis of four (4) samples were total coliform positive. Therefore, the State Board has
3 determined that the System violated Title 22, CCR Section 64426.1 during July 2015.

4 **DIRECTIVES**

5 The System is hereby directed to take the following actions:
6

- 7 1. Comply with Title 22, CCR, Section 64426.1, in all future monitoring periods.
8
- 9 2. Public notification was due to the System's customers by August 31, 2015, the Division
10 has not received any confirmation that this has been accomplished. By **September**
11 **30, 2015**, all persons served by the System shall be notified of the violation by utilizing
12 the Tier 2 Public Notice for violations of Section 64426.1. Public notice shall be given
13 pursuant to Sections 64463.4 [lists method, time frame and delivery] and 64465
14 [content & format]. The System shall use the public notification template appended as
15 Attachment C to fulfill the public notification requirements. The notification shall be
16 completed in accordance with the following methods:
 - 17 • Mail or direct delivery of the public notice to each customer served by the System.
 - 18 • By the use of one or more of the following methods to reach persons ot likely to be
19 reached by mail or direct delivery; publication in a daily or weekly newspaper,
20 posting the public notice in a conspicuous public place within the water system or
21 on the internet, or by delivery to community organizations.
- 22 3. By **October 10, 2015**, the System shall provide to the Division certification of public
23 notification using the enclosed Proof of Notification form (Attachment D). A copy of the
24 final notice that was provided shall also be submitted to the Division with the proof of
25 notification form.
26
27

1 4. By **October 10, 2015**, the System shall complete and submit the enclosed "Positive
2 Total Coliform Investigation" form to the Division that describes the incident and all
3 corrective actions taken, and the results of the investigation. The appropriate
4 investigation report is provided as Attachment E.

5
6 All submittals required by this Citation shall be submitted to the Division at the following
7 address:

8 Tricia Wathen, P.E., Senior Sanitary Engineer
9 State Water Resources Control Board
10 Division of Drinking Water, Visalia District
265 W. Bullard Ave, Suite 101
11 Fresno, CA 93704

12 The State Board reserves the right to make such modifications to the Citation as it may
13 deem necessary to protect public health and safety. Such modifications may be issued as
14 amendments to this Citation and shall be effective upon issuance.

15
16 Nothing in this Citation relieves System of its obligation to meet the requirements of the
17 California SDWA (CHSC, Division 104, Part 12, Chapter 4, commencing with Section
18 116270), or any regulation, standard, permit or order issued or adopted thereunder.

19
20 **PARTIES BOUND**

21 This Citation shall apply to and be binding upon the System, its owners, shareholders,
22 officers, directors, agents, employees, contractors, successors, and assignees.
23
24
25
26
27

SEVERABILITY

The directives of this Citation are severable, and the System shall comply with each and every provision hereof, notwithstanding the effectiveness of any other provision.

FURTHER ENFORCEMENT ACTION

The California SDWA authorizes the State Board to: issue a citation with assessment of administrative penalties to a public water system for violation or continued violation of the requirements of the California SDWA or any regulation, permit, standard, citation, or order issued or adopted thereunder including, but not limited to, failure to correct a violation identified in a citation or compliance order. The California SDWA also authorizes the State Board to take action to suspend or revoke a permit that has been issued to a public water system if the public water system has violated applicable law or regulations or has failed to comply with an order of the State Board; and to petition the superior court to take various enforcement measures against a public water system that has failed to comply with an order of the State Board. The State Board does not waive any further enforcement action by issuance of this Citation.



Tricia Wathen, P.E.
Senior Sanitary Engineer, Visalia District
DRINKING WATER FIELD OPERATIONS BRANCH



Date

Certified Mail No. 7014 3490 0001 7868 9122

TAW/LR

Enclosures (6):

- Appendix 1: Applicable Statutes and Regulations
- Attachment A: Summary of Distribution Bacteriological Samples
- Attachment B: Summary of Source Bacteriological Samples
- Attachment C: Public Notice template
- Attachment D: Proof of Notification Form
- Attachment E: Positive Total Coliform Investigation report



APPENDIX 1

Applicable Statutes and Regulations for Citation No. 03_12_15C_018 Violation of Total Coliform Rule MCL

Section 116271 of the CHSC states in relevant part:

(a) The State Water Resources Control Board succeeds to and is vested with all of the authority, duties, powers, purposes, functions, responsibilities, and jurisdiction of the State Department of Public Health, its predecessors, and its director for purposes of all of the following:

- (1) The Environmental Laboratory Accreditation Act (Article 3 (commencing with Section 100825) of Chapter 4 of Part 1 of Division 101).
- (2) Article 3 (commencing with Section 106875) of Chapter 4 of Part 1.
- (3) Article 1 (commencing with Section 115825) of Chapter 5 of Part 10.
- (4) This chapter and the Safe Drinking Water State Revolving Fund Law of 1997 (Chapter 4.5 (commencing with Section 116760)).
- (5) Article 2 (commencing with Section 116800), Article 3 (commencing with Section 116825), and Article 4 (commencing with Section 116875) of Chapter 5.
- (6) Chapter 7 (commencing with Section 116975).
- (7) The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Division 43 (commencing with Section 75001) of the Public Resources Code).
- (8) The Water Recycling Law (Chapter 7 (commencing with Section 13500) of Division 7 of the Water Code).
- (9) Chapter 7.3 (commencing with Section 13560) of Division 7 of the Water Code.
- (10) The California Safe Drinking Water Bond Law of 1976 (Chapter 10.5 (commencing with Section 13850) of Division 7 of the Water Code).
- (11) Wholesale Regional Water System Security and Reliability Act (Division 20.5 (commencing with Section 73500) of the Water Code).
- (12) Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Division 26.5 (commencing with Section 79500) of the Water Code).

(b) The State Water Resources Control Board shall maintain a drinking water program and carry out the duties, responsibilities, and functions described in this section. Statutory reference to "department," "state department," or "director" regarding a function transferred to the State Water Resources Control Board shall refer to the State Water Resources Control Board. This section does not impair the authority of a local health officer to enforce this chapter or a county's election not to enforce this chapter, as provided in Section 116500...

- (k)
- (1) The State Water Resources Control Board shall appoint a deputy director who reports to the executive director to oversee the issuance and enforcement of public water system permits and other duties as appropriate. The deputy director shall have public health expertise.
 - (2) The deputy director is delegated the State Water Resources Control Board's authority to provide notice, approve notice content, approve emergency notification plans, and take other action pursuant to Article 5 (commencing with Section 116450), to issue, renew, reissue, revise, amend, or deny any public water system permits pursuant to Article 7 (commencing with Section 116525), to suspend or revoke any public water system permit pursuant to Article 8 (commencing with Section 116625), and to issue citations, assess penalties, or issue orders pursuant to Article 9 (commencing with Section 116650). Decisions and actions of the deputy director taken pursuant to Article 5 (commencing with Section 116450) or Article 7 (commencing with Section 116525) are deemed decisions and actions taken, but are not subject to reconsideration, by the State Water Resources Control Board. Decisions and actions of the deputy director taken pursuant to Article 8 (commencing with Section 116625) and Article 9 (commencing with Section 116650) are deemed decisions and actions taken by the State Water Resources Control Board, but any aggrieved person may petition the State Water Resources Control Board for reconsideration of the decision or action. This subdivision is not a limitation on the State Water Resources Control Board's authority to delegate any other powers and duties.

Section 116555(a)(1) of the CHSC states in relevant part:

- (a) Any person who owns a public water system shall ensure that the system does all of the following:
- (1) Complies with primary and secondary drinking water standards.

Section 116650 (Citations) of the CHSC states in relevant part:

- (a) If the Department determines that a public water system is in violation of this chapter or any regulation, permit, standard, citation, or order issued or adopted thereunder, the Department may issue a citation to the public water system. The citation shall be served upon the public water system personally or by certified mail. Service shall be deemed effective as of the date of personal service or the date of receipt of the certified mail. If a person to whom a citation is directed refuses to accept delivery of the certified mail, the date of service shall be deemed to be the date of mailing.
- (b) Each citation shall be in writing and shall describe the nature of the violation or violations, including a reference to the statutory provision, standard, order, citation, permit, or regulation alleged to have been violated.
- (c) A citation may specify a date for elimination or correction of the condition constituting the violation.
- (d) A citation may include the assessment of a penalty as specified in subdivision (e).
- (e) The Department may assess a penalty in an amount not to exceed one thousand dollars

(\$1,000) per day for each day that a violation occurred, and for each day that a violation continues to occur. A separate penalty may be assessed for each violation.

Section 64426.1 (Total Coliform Maximum Contaminant Level (MCL)) of the CCR states in relevant part:

- (a) Results of all samples collected in a calendar month pursuant to Sections 64423, 64424, and 64425 that are not invalidated by the Department or the laboratory shall be included in determining compliance with the total coliform MCL. Special purpose samples such as those listed in §64421(b) and samples collected by the water supplier during special investigations shall not be used to determine compliance with the total coliform MCL.
- (b) A public water system is in violation of the total coliform MCL when any of the following occurs:
 - (1) For a public water system which collects at least 40 samples per month, more than 5.0 percent of the samples collected during any month are total coliform-positive; or
 - (2) For a public water system which collects fewer than 40 samples per month, more than one sample collected during any month is total coliform-positive; or
 - (3) Any repeat sample is fecal coliform-positive or E. coli-positive; or
 - (4) Any repeat sample following a fecal coliform-positive or E. coli-positive routine sample is total coliform-positive.
- (c) If a public water system is not in compliance with paragraphs (b)(1) through (4), during any month in which it supplies water to the public, the water supplier shall notify the Department by the end of the business day on which this is determined, unless the determination occurs after the Department office is closed, in which case the supplier shall notify the Department within 24 hours of the determination. The water supplier shall also notify the consumers served by the water system. A Tier 2 Public Notice shall be given for violations of paragraphs (b)(1) or (2), pursuant to section 64463.4. A Tier 1 Public Notice shall be given for violations of paragraphs (b)(3) or (4), pursuant to section 64463.1.

Section 64463.4 (Tier 2 Public Notice) of the CCR states in relevant part:

- (a) A water system shall give public notice pursuant to this section if any of the following occurs:
 - (1) Any violation of the MCL, MRDL, and treatment technique requirements, except:
 - (A) Where a Tier 1 public notice is required under section 64463.1; or
 - (B) Where the Department determines that a Tier 1 public notice is required, based on potential health impacts and persistence of the violations;
 - (2) All violations of the monitoring and testing procedure requirements in sections 64421 through 64426.1, article 3 (Primary Standards – Bacteriological Quality), for which the Department determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations; . . .
- (b) A water system shall give the notice as soon as possible within 30 days after it learns of a violation or occurrence specified in subsection (a), except that the water system may request an extension of up to 60 days for providing the notice. This extension would be subject to the Department's written approval based on the violation or occurrence having been resolved and the Department's determination that public health and welfare would in no way be adversely affected. In addition, the water system shall:
 - (1) Maintain posted notices in place for as long as the violation or occurrence continues, but in no case less than seven days;
 - (2) Repeat the notice every three months as long as the violation or occurrence continues. Subject to the Department's written approval based on its determination that public health would in no way be adversely affected, the water system may be allowed to notice less frequently but in no case less than once per year. No allowance for reduced frequency of notice shall be given in the case of a total coliform MCL violation or violation of a Chapter 17 treatment technique requirement; and . . .
- (c) A water system shall deliver the notice, in a manner designed to reach persons served, within the required time period as follows:
 - (1) Unless otherwise directed by the Department in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, community water systems shall give public notice by:
 - (A) Mail or direct delivery to each customer receiving a bill including those that provide their drinking water to others (e.g., schools or school systems, apartment building owners, or large private employers), and other service connections to which water is delivered by the water system; and
 - (B) Use of one or more of the following methods to reach persons not likely to be reached by a mailing or direct delivery (renters, university students, nursing home patients, prison inmates, etc.):
 - 1. Publication in a local newspaper;
 - 2. Posting in conspicuous public places served by the water system, or on the Internet; or
 - 3. Delivery to community organizations.
 - (2) Unless otherwise directed by the Department in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, noncommunity water systems shall give the public notice by:
 - (A) Posting in conspicuous locations throughout the area served by the water system; and
 - (B) Using one or more of the following methods to reach persons not likely to be reached by a public posting:
 - 1. Publication in a local newspaper or newsletter distributed to customers;
 - 2. E-mail message to employees or students;
 - 3. Posting on the Internet or intranet; or
 - 4. Direct delivery to each customer.

Section 64465 (Public Notice Content and Format) of the CCR states in relevant part:

- (a) Each public notice given pursuant to this article, except Tier 3 public notices for variances and exemptions pursuant to subsection (b), shall contain the following:
- (1) A description of the violation or occurrence, including the contaminant(s) of concern, and (as applicable) the contaminant level(s);
 - (2) The date(s) of the violation or occurrence;
 - (3) Any potential adverse health effects from the violation or occurrence, including the appropriate standard health effects language from appendices 64465-A through G;
 - (4) The population at risk, including subpopulations particularly vulnerable if exposed to the contaminant in drinking water;
 - (5) Whether alternative water supplies should be used;
 - (6) What actions consumers should take, including when they should seek medical help, if known;
 - (7) What the water system is doing to correct the violation or occurrence;
 - (8) When the water system expects to return to compliance or resolve the occurrence;
 - (9) The name, business address, and phone number of the water system owner, operator, or designee of the water system as a source of additional information concerning the public notice;
 - (10) A statement to encourage the public notice recipient to distribute the public notice to other persons served, using the following standard language: "Please share this information with all the other people who drink this water, especially those who may not have received this public notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail"; and
 - (11) For a water system with a monitoring and testing procedure violation, this language shall be included: "We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During [compliance period dates], we [did not monitor or test] or [did not complete all monitoring or testing] for [contaminant(s)], and therefore, cannot be sure of the quality of your drinking water during that time."
-
- (c) Each public notice given pursuant to this article shall contain information in Spanish regarding the importance of the notice, or contain a telephone number or address where Spanish-speaking residents may contact the water system to obtain a translated copy of the public notice or assistance in Spanish. For each non-English speaking group other than Spanish-speaking that exceeds 1,000 residents or 10% of the residents in the community served, whichever is less, the public notice shall:
- (1) Contain information in the appropriate language(s) regarding the importance of the notice, or
 - (2) Contain a telephone number or address where such residents may contact the water system to obtain a translated copy of the notice or assistance in the appropriate language.
- (d) Each public notice given pursuant to this article shall:
- (1) Be displayed such that it catches people's attention when printed or posted and be formatted in such a way that the message in the public notice can be understood at the eighth-grade level;
 - (2) Not contain technical language beyond an eighth-grade level or print smaller than 12 point; and
 - (3) Not contain language that minimizes or contradicts the information being given in the public notice.

**Appendix 64465-A. Health Effects Language
Microbiological Contaminants.**

Contaminant	Health Effects Language
Total Coliform	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.
Fecal coliform/ <i>E. coli</i>	Fecal coliforms and <i>E. coli</i> are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
Turbidity	Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Section 64469 (Reporting Requirements) of CCR states in relevant part:

- (d) Within 10 days of giving initial or repeat public notice pursuant to Article 18 of this Chapter, except for notice given under section 64463.7(d), each water system shall submit a certification to the State Board that it has done so, along with a representative copy of each type of public notice given.

Bacteriological Distribution Monitoring Report

1610700 Lemoore Naval Air Station
Distribution System Freq: 3W

Sample Date	Location	T Coli	E Coli	F Coli	HPC	Type	CI2	CI2 Avg	Viol. Type	GWR Satisfied?	Comments
7/27/2015	2752B Belleau Wood	<1	<1			Repeat	0.49				
7/27/2015	2752A Belleau Wood	<1	<1			Repeat	0.46				
7/27/2015	2753A Belleau Wood	<1	<1			Repeat	0.46				
7/27/2015	3195 Bowling	<1	<1			Repeat	0.62				
7/27/2015	937 Hospital	<1	<1			Repeat	0.59				
7/27/2015	960 Water Survival	<1	<1			Repeat	0.50				
7/27/2015	440 Weapons	<1	<1			Repeat	0.29				
7/27/2015	437 Weapons	<1	<1			Repeat	0.00				
7/27/2015	472 Weapons	<1	<1			Repeat	0.05				
7/22/2015	2753A Belleau Wood	P	A			Routine	0.68		MCL		
7/22/2015	937 Hospital	P	A			Routine	1.05				
7/22/2015	440 Weapons	P	A			Routine	0.25				
7/10/2015	977 Jet Mart	<1	<1			Repeat	0.67				
7/10/2015	965 CCD	<1	<1			Repeat	0.79				
7/10/2015	3122A Simmons	<1	<1			Repeat	1.16				
7/10/2015	559 Fire School	<1	<1		1.0	Other	0.30				
7/10/2015	Bldg 50	<1	<1		<1	Other	1.31				
7/8/2015	559 Fire School	P	A			Other	0.48				
7/8/2015	977 Jet Mart	P	A			Routine	0.72				
7/1/2015	11 samples	A	A			Routine	0.05-1.73				
6/1/2015	12 samples	A	A			Routine	0.18-1.65				
5/1/2015	12 samples	A	A			Routine	0.09-3.5				
4/29/2015	3 samples	A	A		<1	Other	0.89-1.59				
4/17/2015	12 samples	<1	<1		<1-380	Other	0.04-0.58				In response to lab notification of positives, which were reported incorrectly. There were no coliform positive samples in April 2015.
4/1/2015	15 samples	A	A			Routine	0.06-1.73				
3/20/2015	737 CSP	<1	<1		<1	Repeat	0.23				
3/20/2015	700 Admin	<1	<1		<9	Repeat	0.15				
3/20/2015	736 PSD	<1	<1		<1	Repeat	0.51				
3/18/2015	722 Distribution	P	A		4800	Other	1.0				
3/16/2015	722 Distribution	P	A		1.0	Other	1.07				
3/11/2015	Fire School	P	A		3.0	Routine	0.59				
3/1/2015	11 samples	A	A		<1 to 1.0	Routine	0.3-3.6				
3/1/2015	8 samples	A	A		<1 to 5.0	Other	0.26-3.1				
2/1/2015	12 samples	A	A		<1-94	Routine	0.45-2.9				
1/1/2015	12 samples	A	A		<1 to 19	Routine	0.38-2.09				

Violation Key

MCL	Exceeds the maximum contaminant level	MR5	Incorrect number of repeat samples as follow-up to a positive sample
MR1	No monthly sample for the report month	MR6	No source sample
MR2	No quarterly sample for the report month	MR7	No summary report submitted
MR3	Incorrect number of routine samples for the report month	MR8	Other comments and/or info
MR4	Did not collect 5 routine samples for previous month's positive sample	MR9	CI2 not reported

Source Bacteriological Monitoring Report

1610700 Lemoore Naval Air Station

Sample Date	Time	Source	Sample Type	Test Method	T Coli	E Coli	F Coli	HPC	Violation	Comments
7/10/2015	17:55	722 Trtd	Treatment	MPN	<1	<1		<1		
7/1/2015	10:53	Admin 07 Well	Well	MPN	5.3	<1				
7/1/2015	11:03	722 Raw	Surface	MPN	45	<1				
6/3/2015	10:55	722 Raw	Surface	MPN	43	<1				
6/3/2015	11:50	Admin 07 Well	Well	MPN	>200	<1				
5/13/2015	11:40	Admin 07 Well	Well	MPN	>200	<1				
5/6/2015	11:00	722 Raw	Surface	MPN	88	<1				
4/1/2015	10:00	722 Raw	Surface	MPN	120	<1			Other	Only one sample collected during the month of April
4/1/2015	12:25	Admin 07 Well	Well	MPN	130	<1				
3/25/2015	10:40	722 Raw	Surface	MPN	31	<1				
3/16/2015	10:25	722 Raw	Surface	MPN	31	<1				
3/11/2015	9:51	722 Raw	Surface	MPN	3.1	<1				
3/4/2015	12:10	722 Raw	Surface	MPN	9.9	<1				
3/4/2015	12:15	Admin 07 Well	Well	MPN	83	<1				
3/1/2015		722 Trtd: 3 samples (3/13,3/16,3/18)	Treatment	P/A	P	A		580-2800		CL2 = 1.57-2.4
3/1/2015		722 Trtd: 5 samples (3/4,3/11,3/16,3/20,3/25)	Treatment	P/A	A	A		all <1		CLs = 1.07-2.9
2/25/2015	10:55	722 Raw	Surface	MPN	2.0	<1				
2/18/2015	10:00	722 Raw	Surface	MPN	3.1	<1				
2/11/2015	11:04	722 Raw	Surface	MPN	5.3	<1				
2/4/2015	10:20	722 Raw	Surface	MPN	6.4	<1				
2/4/2015	10:30	Admin Well 7	Well	MPN	1.0	<1				
2/1/2015		722 Trtd: 3 samples (2/11,2/18,2/25)	Treatment	P/A	A	A		<1 - 2.0		CL2 = 2.5-3.7
1/28/2015	9:10	722 Raw	Surface	MPN	1.0	<1				
1/21/2015	10:15	722 Raw	Well	MPN	3.1	<1				
1/14/2015	12:01	722 Raw	Surface	MPN	<1	<1				
1/7/2015	7:25	722 Raw	Surface	MPN	6.3	1.0				
1/7/2015	10:55	Admin 07 Well	Well	MPN	<1	<1				
1/1/2015		722 Trtd: 4 samples (raw wtr dates)	Treatment	P/A	A	A		<1		

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Este informe contiene información muy importante sobre su agua potable.
Por favor hable con alguien que lo pueda traducir.

Lemoore Naval Air Station Has Levels of Coliform Bacteria Above the Drinking Water Standard

Our water system recently failed a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what you should do, what happened and what we did to correct this situation.

We routinely monitor for drinking water contaminants. We took _____ [Insert number of samples] samples to test for the presence of coliform bacteria in July 2015. _____ [Insert Number positive] of these samples showed the presence of total coliform bacteria. The standard is that no more than [1 sample per month may show the presence of coliform bacteria.

What should I do?

- **You do not need to boil your water or take other corrective actions.**
- This is not an emergency. If it had been, you would have been notified immediately. Total coliform bacteria are generally not harmful themselves. *Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.*
- Usually, coliforms are a sign that there could be a problem with the treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or *E. coli*, are present. We did not find any of these bacteria in our subsequent testing.
- People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice about drinking water from their health care providers. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1(800) 426-4791.
- If you have other health issues concerning the consumption of this water, you may wish to consult your doctor.

What happened? What is being done?

[Describe corrective action.] _____ We
anticipate resolving the problem within _____ [estimated time frame].

For more information, please contact _____ [insert name of contact] at
_____ [insert phone number] or at the following mailing address:
_____ [insert business/mailling address].

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail.

Secondary Notification Requirements

Upon receipt of notification from a person operating a public water system, the following notification must be given within 10 days [Health and Safety Code Section 116450(g)]:

- **SCHOOLS:** Must notify school employees, students, and parents (if the students are minors).
- **RESIDENTIAL RENTAL PROPERTY OWNERS OR MANAGERS** (including nursing homes and care facilities): Must notify tenants.
- **BUSINESS PROPERTY OWNERS, MANAGERS, OR OPERATORS:** Must notify employees of businesses located on the property.

This notice is being sent to you by Lemoore NAS.

Date distributed: _____.

PROOF OF NOTIFICATION
(Return with copy of the Notice)

As required by Section 116450 of the California Health and Safety Code, I notified all users of water supplied by the **Lemoore Naval Air Station** of the failure to meet the **total coliform bacteria MCL** for the month of **July 2015** as directed by the Division. At least one primary distribution method is required: mail, hand-delivery or newspaper publication. A second method is also required in order to reach persons not likely to be reached by a mailing, direct delivery or newspaper publication (renters, nursing home patients, prison inmates, etc.):

Notification was made on _____
(date)

To summarize report delivery used and good-faith efforts used, please check all items below that apply and fill-in where appropriate:

- ☐ The notice was distributed by mail delivery to each customer served by the water system.
- ☐ The notice was distributed by direct delivery to each customer served by the water system.
Specify direct delivery method(s) used: _____
- ☐ Publication of the notice in a local newspaper or newsletter of general circulation (attach a copy of the published notice, including name of newspaper and date published).
- ☐ Posted the notice at the following conspicuous locations served by the water system (if needed, please attach a list of locations).

- ☐ Posted the notice on the Internet at www. _____
- ☐ Other method used to notify customers. _____

DISCLOSURE: Be advised that Section 116725 and 116730 of the California Health and Safety Code state that any person who knowingly makes any false statement on any report or document submitted for the purpose of compliance with the attached order may be liable for a civil penalty not to exceed five thousand dollars (\$5,000) for separate violation for each day that violation continues. In addition, the violators may be prosecuted in criminal court and upon conviction, be punished by a fine of not more than \$25,000 for each day of violation, or be imprisoned in the county jail not to exceed one year, or by both the fine and imprisonment.

Certified by Name and Title: _____

Date: _____ Signature: _____

Due to the Division of Drinking Water within 10 days of notification to the public
Total Coliform MCL Failure / Enforcement Action No.: _____

POSITIVE TOTAL COLIFORM INVESTIGATION – SURFACE WATER SYSTEM

This form is intended to assist public water systems in completing the investigation required by the Division of Drinking Water (Section 64426(b) of Title 22, California Code of Regulations) and may be modified to take into account conditions unique to the system.

ADMINISTRATIVE INFORMATION

PWS Name:		PWSID NUMBER:	
Operator in Responsible Charge (ORC)		Name	Address
Person that collected TC samples if different than ORC			Telephone #
Owner			
Certified Laboratory for Microbiological Analyses			
Date Investigation Completed:			
Name of Month(s) and Year of Total Coliform MCL Failure:			

INVESTIGATION DETAILS

SOURCE – RAW SURFACE WATER	SOURCE NAME	COMMENTS
1. Inspect the surface water intake for physical defects and report		
2. Is the intake secured to prevent unauthorized access?		
3. To what treatment plant (name) is the water supplied from this intake?		
4. How often do you collect a total coliform (TC) sample from the raw water?		
5. Provide the date and result of the last TC test at this location		
6. Is there any unusual condition at the intake?		
7. Any additional observation?		

TREATMENT	PLANT NAME	COMMENTS
PRE-FILTRATION TREATMENT		
1. Do you provide any treatment prior to filtration?		
2. If yes, specify type of treatment provided.		
3. Did you experience any problems with the pre-filtration treatment when the total coliform MCL happened? If yes, specify.		
4. Do you provide pre-chlorination?		
5. Specify the point of pre-chlorination?		
6. Was the chlorination system working properly when the TCR MCL was violated?		
7. Have you recently changed the pre-chlorination dosage?		
8. Any additional observation, information?		

POSITIVE TOTAL COLIFORM INVESTIGATION

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TREATMENT	PLANT NAME	COMMENTS
FILTRATION TREATMENT		
1. What kind of filters do you have (Pressure or Gravity, Media specifications)		
2. How many filters are there?		
3. What is the capacity of each filter (gpm per sq ft.)?		
4. What is the capacity of the treatment plant in gpm?		
5. What is the filter loading rate for each filter?		
6. How many filters were in service when the total coliform MCL failure happened?		
7. Did any filter experience any operational problems when the failure happened?		
8. Did you experience any problems with the filter backwashing process?		
9. Did the combined effluent from the treatment plant experience any turbidity failures when the total coliform MCL failure happened?		
10. Did any individual filter exceed the turbidity standard when the failure happened?		
11. How often do you backwash your filters? Is it based on a timer or effluent turbidity?		
12. Are the filters backwashed with treated water? Specify backwash rate and duration.		
11. When was the last time you inspected your filter media?		
13. When was the last time you changed your filter media?		
14. Did you notice any mud balls in the filters when you last inspected your filters?		
15. Any additional observation, information?		
DISINFECTION TREATMENT		
1. What kind of disinfectant do you add?		
2. Where do you add the disinfectant (specify location)?		
3. What was the chlorine residual in the treatment plant effluent?		
4. What was the chlorine residual in the distribution system?		
5. Did the treatment plant effluent lose chlorine residual?, If yes, how long?		
6. Did the distribution system lose chlorine residual? If yes, how long?		
7. If you provide continuous chlorination treatment, was there any equipment failure?		
8. Inspect each point where disinfectant is added and report		
a. For hypochlorination systems		
1) Is the disinfectant feed pump feeding disinfectant?		
2) What is the feed rate of disinfectant in ml/minute?		

POSITIVE TOTAL COLIFORM INVESTIGATION

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TREATMENT	PLANT NAME	COMMENTS
3) What is the concentration of the disinfectant solution being fed? (percent, or mg/l of chlorine as HOCl)		
4) By what method was the concentration of solution determined? (ex: measured, manufacturer's literature)		
5) What is the age (days) of the disinfectant solution currently being used at this treatment location?		
6) What is the raw water flow rate at the point where disinfectant is added in gallons per minute?		
7) What is the total chlorine residual measured immediately downstream from the point of application?		
8) What is the free chlorine residual measured immediately downstream from the point of application?		
9) What is the contact time in minutes from the point of disinfectant application to the CT compliance point?		
10) Did the treatment plant experience any CT failure due to inadequate chlorine dosage? If yes, specify what happened?		
11) Did the treatment plant experience any CT failure due to inadequate contact time? If yes, specify what happened?		
12) Any additional observation/information?		

STORAGE	TANK (name)	TANK (name)	TANK (name)	TANK (name)	COMMENTS
1. Is each tank locked to prevent unauthorized access?					
2. Are all vents of each tank screened and down-turned to prevent dust and dirt from entering the tank?					
3. Is the overflow on each tank screened?					
4. Are there any unsealed openings in the tank such as access doors, water level indicators hatches, etc.?					
5. Are there any visible leaks in the tanks? Is the exterior of the tank corroded?					
6. Is the roof/cover of the tank sealed and free of any leaks?					
7. Is the tank above ground or buried?					
a. If buried or partially buried, are there provisions to direct surface water away from the site?					
b. Has the interior of the tank been inspected to identify any sanitary defects, such as root intrusion?					
8. Does the tank "float" on the distribution system or are there separate inlet and outlet lines?					

POSITIVE TOTAL COLIFORM INVESTIGATION

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STORAGE	TANK (name)	TANK (name)	TANK (name)	TANK (name)	TANK (name)	COMMENTS
9. What is the measured chlorine residual (total/free) of the water exiting the storage tank today ?						
10. What is the volume of the storage tank in gallons? How old is the tank?						
11. Is the tank baffled?						
12. Prior to the TC+ or EC+, what was the previous date items #1-7 were checked and documented?						

DISTRIBUTION SYSTEM	SYSTEM RESPONSES
1. What is the minimum pressure you are maintaining in the distribution system?	
2. Did pressure in the distribution system drop to less than 5 psi prior to experiencing the TCR positive finding?	
3. Has the distribution system been worked on within the last week? (service taps, hydrant flushing, main breaks, main extensions, etc.) If yes, provide details.	
4. Are there any signs of excavations near your distribution system not under the direct control of your maintenance staff?	
5. Did you inspect your distribution system to check for mainline leaks? Do you or did you have a mainline leak?	
6. If there was a mainline leak, when was it repaired?	
7. On what date was the distribution system last flushed?	
8. Is there a written flushing procedure you can provide for our review?	
9. Do you have an active cross connection control program?	
10. What is name and phone number of your Cross-Connection Control Program Coordinator?	
11. Is the review and testing of backflow prevention devices current?	
12. On what date was the last physical survey of the system done to identify cross-connections?	

BOOSTER STATION	SYSTEM RESPONSES
1. Do you have a booster pump? How many?	
2. Do you have a standby booster pump if the main pump fails?	
3. Prior to bacteriological quality problems, did your booster pump fail?	
4. Do you notice standing water, leakage at the booster station?	

POSITIVE TOTAL COLIFORM INVESTIGATION

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SAMPLE SITE EVALUATION (Complete for all TC+ or EC+ findings)		Routine Site TC+ or EC+	Upstream Site	Downstream Site	Sample 4 (specify location)
1.	What is the height of the sample tap above grade? (inches)				
2.	Is the sample tap located in an <u>exterior</u> location or is it protected by an <u>enclosure</u> ?				
3.	Is the sample tap threaded, have a swing arm (kitchen sink) or aerator (sinks)?				
4.	Is the sample tap in good condition, free of leaks around the stem or packing?				
5.	Can the sample tap be adjusted to the point where a good laminar flow can be achieved without excessive splash?				
6.	Is the sample tap and area around the sample tap clean and dry (free of animal droppings, other contaminants or spray irrigation systems) ?				
7.	Is the area around the sample tap free of excessive vegetation or other impediments to sample collection?				
8.	Describe how the tap was treated in preparation for sample collection (ran water, swabbed with disinfectant, flamed, etc.)				
9.	Is this sample tap designated on the sampling plan submitted with this information request?				
10.	What were the weather conditions at the time of the positive sample (rainy, windy, sunny)?				

GENERAL OPERATIONS:	Response
1. Where there any power outages that affected water system facilities during the 30 days prior to the TC+ or EC + findings?	
2. Were there any main breaks, water outages, or low pressure reported in the service area where TC+ or EC+ samples were located?	
3. Does the system have backup power or elevated storage?	
4. During or soon after bacteriological quality problems, did you receive any complaints of any customers' illness suspected of being waterborne? How many?	
5. What were the symptoms of illness if you received complaints about customers being sick?	

POSITIVE TOTAL COLIFORM INVESTIGATION

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ADDITIONAL INFORMATION TO BE SUBMITTED WITH RESPONSES TO THE ABOVE QUESTIONS

1. **Sketch** of System showing all sources, all treatment and chlorination locations, storage tanks, microbiological sampling sites and general layout of the distribution system including the location of all hazardous connections such as the wastewater treatment facility.
2. A set of photographs of the source, pressure tanks, and storage tanks in the system may be submitted if they would show that the contamination is directly related and changes have been made since the last inspection by our Department
3. Name, certification level and certificate number of the Operator in Responsible Charge.
4. Copy of the last cross connection survey performed that identifies the location of all unprotected cross connections.

SUMMARY: BASED ON THE RESULTS OF YOUR INVESTIGATION AND ANY OTHER INFORMATION AT YOUR DISPOSAL, WHAT DO YOU BELIEVE TO BE THE CAUSE OF THE POSITIVE TOTAL COLIFORM SAMPLES FROM YOUR PUBLIC WATER SYSTEM?

CERTIFICATION: I CERTIFY THAT THE INFORMATION SUBMITTED IN RESPONSE TO THE QUESTIONS ABOVE IS ACCURATE TO THE BEST OF MY PROFESSIONAL KNOWLEDGE

NAME: _____ TITLE: _____ DATE: _____